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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/886,839	06/20/2001	Andrew Witkowski	50277-1546	6253	
29989	7590 01/09/2004		EXAMINER		
HICKMAN PALERMO TRUONG & BECKER, LLP 1600 WILLOW STREET			WOO, ISAAC M		
SAN JOSE,	_		ART UNIT	PAPER NUMBER	
,			2172	/)	
			DATE MAILED: 01/09/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Application No.   Application No.   Office Action Summary   Examiner   Examiner   Art Unit   Isaac M Woo   2172						pre			
Examiner	•		Appl	lication No.	Applicant(s)				
Lasac M Woo   2172			09/8	86,839	WITKOWSKI ET	WITKOWSKI ET AL.			
The MALLING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION.  Eatherison of internary be existed under the provision of 30°CR1.136(a). In no event, however, may a reply be timely field  Eatherison of internary be existed under the provision of 30°CR1.136(a). In no event, however, may a reply be timely field  Eatherison of the reply specified above is listed than thirty (50) days, a reply whilin the statutory minimum of thirty (50) days, as the considered finely.  If the period for reply specified above is listed than thirty (50) days, a reply whilin the statutory minimum of thirty (50) days, as the speciation to become AdANDONED (50 SUS. 3 133).  If the period for reply specified above is listed than thirty (50) days, a reply whilin the statutory minimum of the malling date of this communication.  Fallule to reply whilin the set or extended period for reply will. by statute, cause the application to become AdANDONED (50 SUS. 3 133).  Responsive to communication(s) filled on 12 November 2003.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1:20 and 41:60 is/are pending in the application.  4a) Of the above claim(s) is/are epicted.  7) Claim(s) is/are allowed.  Claim(s) 1:20 and 41:60 is/are rejected.  7) Claim(s) is/are objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  Application Papers  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a)		Office Action Summary	Exar	niner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensible of time may be available under the provisions of 37 CFR 1.35(s), in no event, however, may a reply be timely filed  - Extensible of time may be available under the provisions of 37 CFR 1.35(s), in no event, however, may a reply be timely filed  - Extensible of time may be available under the provisions of 37 CFR 1.35(s), in no event, however, may a reply be timely filed  - If IND period for reply is appointed use less than think (30) days, as we he considered timely.  - If IND period for reply is appointed to see year the provision of the provision of the provision of the provision of the replace of the provision of the provision of the provision of the provision of the replace of the communication, even I timely filed, may relate any example patient term adjustment. See 37 CFR 1.704(b).  - Status  1) □ Responsive to communication(s) filed on 12 November 2003.  2a) □ This action is FINAL.  - 2b) □ This action is FINAL.  - 2b) □ This action is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 1-20 and 41-60 is/are pending in the application.  4) □ Claim(s) 1-20 and 41-60 is/are pending in the application.  4) □ Claim(s) 1-30 and 41-60 is/are rejected.  - 7) □ Claim(s) 2-30 and 41-60 is/are rejected.  - 7) □ Claim(s) 2-30 and 41-60 is/are rejected.  - 7) □ Claim(s) 3-40 and 41-60 is/are rejected to by the Examiner.  - Application Papers  9) □ The specification is objected to by the Examiner.  - Application Papers  9) □ The drawing(s) filed on 1-10 is/are: 10 accepted or b) □ objected to by the Examiner.  - Application Papers  9) □ The drawing(s) filed on 1-10 is/are: 10 accepted or b) □ objected to by the Examiner.  - Application Papers  9) □ The common Pap									
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provision of 3 CFR 1.13(s), in or event, however, may a rapity be timely filed after SIX (8) MONTHS from the mailing date of this communication.  **Inch SIX (8) MONTHS from the mailing date of this communication.  **Inch SIX (8) MONTHS from the mailing date of this communication.  **Inch SIX (8) MONTHS from the mailing date of this communication of the provision of Claims  **Application of Claims**  4) Claim(s) **1-20 and 41-60** is/are pending in the application.  4a) Of the above claim(s)			nication appears o	on the cover sheet	with the correspondence ac	ldress			
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#### **DETAILED ACTION**

1. This action is in response to Applicant's Request for Reconsiderations, filed on November 12, 2003 have been considered but they are not persuasive.

- 2. The 35 USC § 112 rejections to claim 7, has been withdrawn because of applicant's persuasive argument. And the whole page (page number 2) of Patent Abstractions and clear English version of Sasaki, as applicant's request, included.
- 3. Claims 1-20 and 41-60 are pending.

### Response to arguments

4. In response to Applicant's Remarks filed on November 12, 2003, the following factual arguments are noted:

Sasaki and/or Miller combined do not disclose or suggest,

"in response database query, retrieving data from a relational structure as if the data was stored in a multi-dimensional array and storing the data in a non-relational structure that can be addressed as a multi-dimensional array, by performing the operation specified in the database query".

Examiner disagrees, Sasaki discloses, client-server database system, especially, searches and extracts data from the relational database on a server, and relates to the

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record medium which recorded data base retrieval / extract system, see (section [0001]) discloses, database system which accesses the table data of the relational database (RDB) on a server, see (section [0002]), SQL, see (section [0009]). This teaches that retrieving data in response to (by) database query function (SQL) and database has database table (section [0006]) that is a multi-dimensional array and retrieved data is saved and this data format is spreadsheet type data (spreadsheet is multi-dimensional data type), which can be addressed as a multi-dimensional array, see (section [0002], lines 1-12, section [0019], lines 1-10, section [0022], lines 1-18). Thus, Sasaki teaches, in response database query, retrieving data from a relational structure as if the data was stored in a multi-dimensional array. Miller discloses, storing the data in a non-relational structure, see (col. 3, lines 54-66). And all previously specified operations are in response to the database query. Thus, Sasaki and Miller combined teach, storing the data in a non-relational structure that can be addressed as a multi-dimensional array, by performing the operation specified in the database query.

#### Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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<sup>(</sup>a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 1-20 and 41-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki Kanzunobu (Japanese Publication No. 11-161656, hereinafter, "Sasaki") in view of Miller et al (U.S. Patent No. 6,615,241, hereinafter, "Miller").

With respect to claims 1, 7, 9, 10, 12 and 13, Sasaki discloses, the method for performing a database query operation, receiving, at a database server (section [0021], lines 1-5), a database query (SQL) that specifies an operation for manipulating data. see (section [0036], lines 1-4); reference data in a relational structure (section [0009], lines 1-5, section [0003], lines 1-12, the data was stored in a multi-dimensional array ( section [0009], lines 1-14, database table has the format of row and column ,which is multi-dimensional array); in response to receiving the database query, the database server executing the query by performing, see (by the SQL, section [0019], lines 1-18); retrieving a first set of data from a first relational structure, see (section [0019], lines 1-18, section [0022], lines 1-18); storing the first set of data in a structure that can be addressed as a multi-dimensional array (spreadsheet), see (data is stored in record medium, section [0002], lines 1-12, section [0019], lines 1-10, section [0022], lines 1-18), and performing the first set of data by performing the operation specified in the database query on the data, see (section [0022], lines 1-18, section[0025], lines 1-12, extraction condition input function with database query performing based on condition input). Sasaki discloses the storing the first data set in a data structure of spreadsheet, see (section [0019], lines 1-18). Sasaki does not explicitly disclose the storing the first

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data set in a data "non-relational structure". However, Miller discloses the spreadsheet is one of a non-relational data structure, see (col. 3, lines 54-66). Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to include the non-relational structure as taught in Miller in the system of Sasaki to store data in non-relational data structure. Because management of relational database requires understanding of syntax of SQL sentence, which is not easy for users. Spreadsheet provides easy manipulation of data management for users.

With respect to claims 2 and 17-18, Sasaki discloses, the storing the first set of data in a structure that can be symbolically addressed as an n-dimensional array (spreadsheet), see (page 2, section [0009]).

With respect to claim 3, Sasaki discloses, presenting (displaying) in tabular format results from performing the operation, see (page 2, section [0009], lines 1-6).

With respect to claim 4, Sasaki discloses, automatically reordering the specified operations to allow the operation to be correctly performed on the data stored in the non-relational structure, see (page 10, section [0058], lines 1-7, page 4, section [0019], lines 1-18).

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With respect to claim 5, Sasaki discloses, aggregating over a set of data information contained in multiple cells of the non-relational structure (spreadsheet includes multiple cells), see (page 2, section [0009], lines 1-6).

With respect to claims 6, 11 and 20, Sasaki discloses, repeatedly performing a series of manipulations on the data until a particular criterion is satisfied, see (page 7, section [0037], lines 1-18).

With respect to claim 8, Sasaki discloses, receiving a database query that specifies a multi-dimensional array operation, see (page 7, section [0037], lines 1-18).

With respect to claim 14, Sasaki discloses, retrieving the first set of data from one or more tables within the relational database, see (page 4, section [0019], lines 1-18, page 5, section [0022], lines 1-18).

With respect to claims 15-16, Sasaki discloses, storing the first set of data within a non-relational spreadsheet application, see (page 2, section [0009], lines 1-10, page 4, section [0019], lines 1-18, page 5, section [0022], lines 1-18).

With respect to claim 19, Sasaki discloses, after performing the step of manipulating the first set of data, storing in a second relational structure, result

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information based on performance of the operation, see (page 2, section [0009], lines 1-10, page 4, section [0019], lines 1-18, page 5, section [0022], lines 1-18).

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Claims 41-60 are computer-readable medium claims which are identical previous claims 1-20, are rejected on grounds corresponding to the reasons given above in claims 1-20.

#### Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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## **Contact Information**

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isaac M Woo whose telephone number is (703) 305-0081. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Breene can be reached on (703) 305-9790. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

IMW January 6, 2004

> SHAHID ALAM SHAHID EXAMINER PRIMARY EXAMINER